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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/892,613	06/27/2001	Shawn Shui-on Leung	655	4914	
75	7590 06/07/2005			EXAMINER	
Albert Wai-Kit Chan			HELMS, LARRY RONALD		
Law Offices of	Albert Wai-Kit Chan, Ll	LC		·	
World Plaza Suite 604			ART UNIT	PAPER NUMBER	
141-07 20th Avenue			1642		
Whitestone, NY 11357			DATE MAILED: 06/07/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
055 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	09/892,613	LEUNG, SHAWN SHUI-ON
Office Action Summary	Examiner	Art Unit
	Larry R. Helms	1642
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (3 vill apply and will expire SIX (6) MONTHS , cause the application to become ABANI	be timely filed  0) days will be considered timely.  6 from the mailing date of this communication.  DONED (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on 4/1/2</li> <li>2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowar</li> </ul>	action is non-final.	s. prosecution as to the merits is
closed in accordance with the practice under E		
Disposition of Claims		
4)  Claim(s) 40-50 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5)  Claim(s) is/are allowed. 6)  Claim(s) 40-50 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by drawing(s) be held in abeyance. ion is required if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Appl ity documents have been rec (PCT Rule 17.2(a)).	ication No ceived in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		mary (PTO-413) ail Date nal Patent Application (PTO-152)
.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary	Part of Paper No./Mail Date 20050328

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### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/17/05 has been entered.

- 2. Claims 40-50 are pending and are under examination.
- 3. The text of those sections of Title 35 U.S.C. code not included in this office action can be found in a prior Office Action.
- 4. It is noted that the RCE filed 3/17/05 requested that the amendment filed 6/26/04 be considered. This amendment was considered and addressed in the final Office Action mailed 9/13/04 and will be reiterated in the rejections below because the response filed 4/1/05 did not add any new arguments.

## Rejections Withdrawn

5. The rejection of newly added claims under 35 U.S.C. 102(b) as being anticipated by Ohtomo et al (Molecular Immunology 32:407-416, 1995) is withdrawn in view of the amendments to the claims.

### Response to Arguments

6. The rejection of newly added claim 50 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement is maintained.

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The response filed 4/1/05 has been carefully considered but is deemed not to be persuasive. The response states that support for claim 50 is supported by previous claim 39 (see page 8 of response). In response to this argument, previous claim 39 was for a pharmaceutical composition and in fact was not examined and does not support the claimed limitation.

7. The rejection of newly added claims 40-50 under 35 U.S.C. 103(a) as being unpatentable over Ohtomo et al (Molecular Immunology 32:407-416, 1995) and further in view of Queen et al (US Patent 5,693,762, issued 12/97, IDS #11/2) is maintained.

The response filed 6/28/04 has been carefully considered but is deemed not to be persuasive. The response argues residues re-introduced are different in framework-patching than in Queen et al (see page 22-24). In response to this argument, the claims requiring re-introducing residues only require replacement of residues adjacent or within a certain distance to a CDR there is nothing in the claims requiring the re-introduced residues not being murine.

The response then states that FR1, FR2, and FR3 should be intact in the Queen reference and Otomo does not teach altering the FR1, FR2, or FR3 (see page 25-27). In response to this argument, Ohtomo et al clearly teaches looking for the most homologous FR from the human database or consensus sequence. Ohtomo et al teach comparison of the Fr wherein each is compared. Therefore, it would be obvious to have

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a FR1 from one immunoglobulin and FR2 from another if the most homology was found in a different immunoglobulin (wherein FR1 was most homologous to one human immunoglobulin and FR2 was most homologous to anther immunoglobulin). This is because Ohtomo et al chose FR4 to be different based on homology to another immunoglobulin. In addition, Ohtomo teach FR1 and 2 from a mouse and FR3 and 4 from human in the light chain (see page 412). Therefore, the method of Ohtomo would use comparisons of each FR.

The response further argues methods of the invention vs. Queen and Ohtomo and which residues to back mutate (see pages 29-31). In response to this argument, the claims are to products not methods and as stated above the products are the same as claimed and in the prior art and the claims only require replacement of residues adjacent or within a certain distance to a CDR there is nothing in the claims requiring the re-introduced residues not being murine.

The response then states that the homology of Ohtomo and Queen is in the context of the whole FR sequence and not individualized Fr and this is unprecedented (and assumed to be the invention) (see page 31). In response to this argument, Ohtomo et al teach comparison of the Fr wherein each is compared. Therefore, it would be obvious to have a FR1 from one immunoglobulin and FR2 from another if the most homology was found in a different immunoglobulin (wherein FR1 was most homologous to one human immunoglobulin and FR2 was most homologous to anther immunoglobulin). This is because Ohtomo et al chose FR4 to be different based on

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homology to another immunoglobulin. Therefore, the method of Ohtomo would use comparisons of each FR.

8. The rejection of newly added claims 40-44, 46-50 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is maintained.

The response filed 4/1/05 did not address this rejection and as such it is maintained.

#### Conclusion

- 9. No claim is allowed.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Larry R. Helms, Ph.D, whose telephone number is (571) 272-0832. The examiner can normally be reached on Monday through Friday from 6:30 am to 4:00 pm, with alternate Fridays off. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffery Siew, can be reached on (571) 272-0787.

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11. Papers related to this application may be submitted to Group 1600 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Fax Center telephone number is (703) 308-4242.

Respectfully,

Larry R. Helms Ph.D.

571-272-0832

LARRY R. HELMS, PH.D PRIMARY EXAMINER